

SMARTBRIDGE FOR TACTICAL NETWORK ROUTING APPLICATIONS

ABSTRACT OF THE DISCLOSURE

An intelligent communications capability that enhances legacy military

5 tactical datalink systems by creating an interface between disparate civil and military communications systems onboard military aircraft, ground vehicles, and ground-based communications infrastructures. This capability performs various information management tasks to interface with avionics systems, ground vehicle computer systems, and ground-based infrastructure

10 computer systems. The invention enhances message processing through automation in areas such as data collection, incoming message handling, outgoing message construction, communications network management, and message priority management and routing. The invention also incorporates learning techniques to improve the overall efficiency of integrated military missions, operations, and maintenance in areas such as intelligent consolidation of datalink information, intelligent message distribution, and adaptive message re-routing in response to communications network failures. These enhancements will benefit the military by improving mission effectiveness with real-time information integration and management while reducing their support costs.

15

20